KAS'YAHOV, V.V., inzh.

light gravity quay with discharging and screening platforms. Transp. stroi. 14 no.1:26-29 Ja 164. (MISS 17:8)

KAS!YANOV, Yo. A.; SAVINOVSKIY, D. V.; Engs.

Steam Boilers

Projected blowing through of lower boiler tubing. Elek. sta. 24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, Fay 1953, Unclassified.

ACC NR: AP7005613

SOURCE CODE: UR/0413/67/000/002/0051/0051

INVENTOR: Germ, A. I.; Kas yanov, Yu. P.

ORG: none

TITLE: Six-arm waveguide bridge. Class 21, No. 190442.

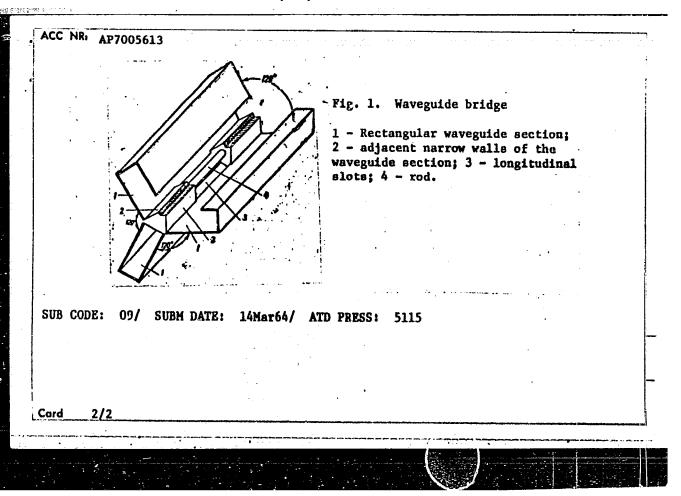
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 51

TOPIC TAGS: waveguide element, waveguide couple, RECTANGULAR WAVEGUIDE.

ABSTRACT: An Author Certificate has been issued for a six-arm waveguide bridge (see Fig. 1) containing three sections of rectangular waveguide. To

provide equal division of energy the adjacent walls of the waveguide section have longitudinal slots which form a coupling cavity. A longitudinal metal rod is placed inside the coupling cavity. Orig.

[WP] art. has: 1 figure.



KAS'YANOVA, A.A.; LABAZNIKOV, A.F.; NADIJER, Ya.S.; SOPMAN, A.S.

New material for prosthetic devices. Ortop.travm. i protez. 20 no.2:47-48 F 159. (MIRA 12:12)

1. Iz Moskovskogo protezno-ortopedicheskogo zavoda im. K.Marksa (dir. - V.P. Nikiforov).

(PROSTHESIS

laminated polyamide material (Rus))

14.

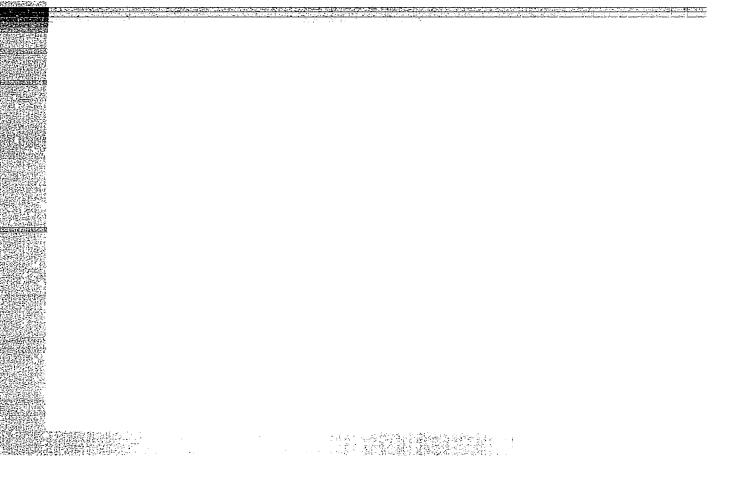
KAS YANOVA, A.A., assistent; PAVLOV, S.A., doktor tekhn.nauk prof.

Forming of films from solutions. Izv.vys.ucheb.zav.; tekh.leg. prom. no.5:45-51 '59. (HIRA 13:4)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii iskusstvennoy koshi. (Films (Chemistry))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1"

The work was conducted to learn if the high clasticity of carboxilate number could contration of the polyanide was 10%, and the viscosity of the in-



KAS'YANOVA, A.A., assistent; POL'GEYM, L.V., insh.; SKORNYAKOVA, T.A., insh.; PAVLOV, S.A., prof., doktor tekhn.nauk

Effect of the molecular weight of polyamide resins on the properties of their solutions and films. Izv.vys.ucheb.zav.; tekh.leg.prom. no.6:28-33 '59. (MIRA 13:5)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii iskusstvennoy kozhi. (Polyamides) (Leather substitutes)

KAS YAHOVA, A.A., inzh.; PAVLOV, S.A., doktor tekhn.nauk, prof.

Effect of the composition of the solvent mixture on the mechanism of the formation of polyamide films. Izv.vys.uchcb.zav.; tekh.leg.prom. no.4:25-30 '60. (MIRA 13:10)

1. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti. Rekomendovana kafedroy tekhnologii iskusstvennoy kozhi.

(Films (Chemistry)) (Polyamides)

KAS'YANDVA, I.V

PHASE I BOOK EXPLOITATION 1169

Vsesoyuznyy nauchno-issledovatel'skiy institut metodiki i tekhniki razvedki

Novoye v metodike i tekhnike geologorazvedochnykh rabot (New Developments in the Methods and Techniques of Geological Exploration) Leningrad, Gostoptekhizdat, 1958. 423 p. (Series: Its. Sbornik trudov I)/2,000-copies printed.

Additional Sponsoring Agency: USSR Ministerstvo geologii i okhrany nedr.

Edn.: Volosyuk, G.K., Maramzin, A.V., Safronov, N.I., Semenov, A.S., Executive Ed.;
Regins, G.M.; Tech. Ed.: Yashchurzhinskaya, A.B.

PURPOSE: The book is intended for professional geologists and geophysicists.

COVERAGE: This collection of articles reviews geological and geochemical methods of exploration used in the Soviet Union, and the recent achievements in the search of polymetallic deposits in Zabaykal'ye, Rudnyy Altay, and in the Soviet Far Northeast. The first group of articles describes discoveries of mineral deposits and the development of new industrial complexes in the USSR during the last 25 years, the latter based on the discovery of iron ore deposits, coal fields and new oil fields (like the Second Baku, situated between the Urals and the Volga) Card 1/6

New Developments (Cont.)

1169

as well as copper, bauxite, and other mineral deposits. The second group of articles discusses geophysical exploration methods, the modernization of equipment, and the discusses geophysical exploration methods, the modernization of equipment, and the discusses geophysical exploration scientific Research Institute of Surveying Methods and Techniques (VITR). The third group of articles describes a new electrologging method based on oscillatory processes and a physical principle known as the electro-hydraulic effect. It is emphasized that sical principle known as the electro-hydraulic effect. It is emphasized that the first air-borne magnetometer used in exploring iron ore deposits was designed by A.A. Logachev in 1935, and that subsequently large parts of the USSR were explored with the aid of AM-9L, AFM-49, AM-11, AM-25 air-borne magnetometers. New gravineters SN-3 and FAK-3M, variometers Z-40 and S-20, and gradient meters. New gravineters SN-3 and FAK-3M, variometers Z-40 and S-20, and gradient industry. New drilling rigs for various depths and different types of rocks and strata have been and are being designed. The text contains numerous illustrations and bibliographic references.

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AVAILABLE: Library of Congress	
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ALBUL, S.P.; ZVONKOVA, M.B.; KAS'YANOVA, I.V.; SUDOV, B.A.

Using hydrochemical methods in prospecting for ore deposits in the Budyumkan Basin (eastern Transbaikalia). Trudy VITR no.3:295-303 '61. (MIRA 15:7) (Budyumkan Valley-Geochemical prospecting)

GALYAMINA, V.D.; KAS'YANOVA, K.A.

Opisthorchiasis among the population of Knybyshev. Med.paraz.i paraz.bol. 26 no.6:740-741 N-D *57. (MIRA 13:4) (KUYBYSHEV--LIVER FLUKE)

KAS'YANOVA, K.A., GLEBOVA, A.A.

Case of dipylidiasis in man. K.A. Kas'ianova, A.A. Glebova. Med. paraz. i paraz. bol. 27 no.2:219 Mr-Ap '58 (MIRA 11:5)

1. Iz parazitologicheskogo otdeleniya sanitarno-epidemiologicheskoy stantsii Kuybysheva.
(TAPENORMS)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1"

FREYDENZON, Ye.Z.; FREYDENZON, Yu.Ye.; KOTSAR', S.L.; ZATULOVSKAYA, Ye.Z.; Prinimali uchastiye: KAS'YANOVA, K.S.; MUDRIK, L.Ya.; TIMOFLYEVA, T.D.; KOTEL'NIKOVA, Z.G.; VOYLOSHNIKOVA, A.I.; VASEVA, R.S.; GNATYUK, P.I.; MYKOL'NIKOV, A.A.; BURKSER, A.Ye.; PONER, D.M.; OGORODNIKOV, G.K.

Developing an efficient shape for slab ingots. Stal¹ 25 no.6: 539-543 Je ¹65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Ye. Freydenzon, Yu. Freydenzon, Kotsar', Zatulovskaya).

TRANOVICH, Vikentiy Valerianovich; KAS'YANOVA, L., red.; FILIPPOVA, E., red. izd-va; LEBEDEV, A., tekhn. red.

[Payments to the budget from the receipts of amusement enterprises] Platezhi v biudzhet s vyruchki zrelishchnykh predpriiatii. Moskva, Gosfinizdat, 1962. 68 p. (MIRA 15:6) (Amusements—Taxation)

KAS'YANOVA, L.

The page of our century, Inform.biul. VDNKH no.4:38 Ap 165. (MIRA 18:5)

KAS'YANOVA, L.

Rejuvenated steel main lines. Inform.biul.VDNKH no.1:32-34 Ja '65. (MIRA 18:3)

USSR/Cultivated Plants - Potatoes, Vegetables, Melnis.

11-5

Abs Jour

: Ref Whur - Biol., No 9, 1958, 39334

Author

: Kas yanova, L.A.

Inst

: Scientific Research Institute of Agriculture of North-

Eastern Rayons of Mon-Cherneren Belt.

Title

: Nothods for the Preparation of Onion Planting for Bring-

ing out Onions Tops in Hothouses.

Orig Tub

: Dyul. nauchno-tekhn. inform. N.-1. in-ta s. kh. sev.-vost.

r-nov nechernozerm. polosy, 1957, No 2-3, 33-34.

Abstract

: No abstract.

Card 1/1

- 30 -

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1"

F-l

USSR/Microbiology - General Microbiology

: Ref Zhur - Biol., No 10, 1958, 43094 Abs Jour

Zamukhovskaya, A.N., Shvartsman, L.A., Finkelshteyn, N.R., Author

Kasyanova, L.K.

: Biological Properties of B. Coli When Cultivated on a Inst

Title Liquid Medium with Aeration.

Tr. Mosk. n.-i. in-ta vaktsin i syvorotok, 1956, 8, 191-Orig Pub

: No abstract. Abstract

Card 1/1

MASYANGER, L. M.

APPROVED FOR RELEASE; 06/13/2000 Mic COA-RDP86-00513R000721110008-1"

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38295.

Author : Shanina-Vagina, V. I., Zamukhovskaya, A. N.,

-Kacyanova, L. K.

: Not given. Inst

Title : A Study of Nutrient Media in Depth Cultivation

of Typhoid and Flexner Dysentery Bacilli.

Orig Pub: Nauchn. tr. Mosk. n.-i. in-ta vaktsin i syvorotok,

1956, 8, 277-285.

Abstract: Nutrient media prepared from casein and fish-

bone meal hydrolysates by the action of the Aspergillus terricola protease are similar in composition to the commonly used tryptic casein medium, and differ from the latter by the absence

of peptones and a larger polypeptide content.

Card 1/2

YANOVA, L.K.

USSR / Microbiology - Microbes Pathogenic to Humans

Abs Jour: Referat.Zh.Biol., No. 1, 1958, 729

Author : Petrosyan, E.A., Zelikina, A.Z., Kas'yanova, L.K. Title : A Chemical Study of Antigen Complex in Sonne

Orig Pub: Nauchn. tr. Mosk. n.-i. in-ta vaktsin i syvoretek,

Abstract: Antigens of Sonne dysentery bacteria obtained from the microbial mass by extraction with trich-

loracetic acid or by digesting with pancreatin are very similar in their chemical composition, differing only in that the antigens obtained by the first method contain somewhat less total ritrogen. Both these antigens possess high specific and antigenic properties. The antigenic prepara-

Card 1/3

Card 2/3

USSR / Microbiology - Microbes Pathogenic to Humans F-4 and Animals

Abs Jour: Referat. Zh. Biol., No. 1, 1958, 729

extraction from microorganisms by trichloracetic acid contains less nitrogen and considerably less reducing substances than antigen obtained in S-form from bacteria by the same method. Antigen from R-form is not precipitated by an antiserum, but in an 0.025 g dose creates protection in mice from 1 Dcl of live culture in 83% of cases. Antigenic preparations obtained from Sonne bacteria in an R-form by other methods are close to antigenic preparations from S-form in chemical composition, but are devoid of specificity and immunogenic properties.

Card 3/3

17(2)

SOV/16-59-9-21/47

AUTHORS:

Smirnova, Ye.A., Kas'yanova, L.K., and Legat, I.M.

TITLE:

A Study of the Possibility of Using Ion Exchanger Resins for Eliminat-

ing Ballast Substances From Compound Antigens

PERIODICAL:

Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1959, Nr 9,

pp 97-100 (USSR)

ABSTRACT:

The compound antigens from bacteria of the enteric group, used at present for specific prophylaxis, are prepared by tryptic decomposition of the microbe culture and are purified by hydrodialysis after precipitation with spirit. Hydrodialysis, however, does not purify the antigens sufficiently of mineral impurities and, in an attempt to find a better method of purification the authors turned to ion exchanger resins. Soviet scientists are quoted as evidence that the resins possess purifying properties: F.G. Prokhorov, P. Kreych, G.I. Silin, I.E. Apel tsin, I.P. Losev, R. Kunin, et al. The tests were carried out with SBS-1 cationite forte and EDE-10-P anionite forte. The test objects were liquid fractions of tryptic hydrolysates of Salmonella typhosa, Salmonella paratyphosa, Shigella flexmeri and Shigella sonnei. The results suggested that the period of purifica-

Card 1/2

sov/16-59-9-21/47

A Study of the Possibility of Using Ion Exchanger Resins for Eliminating Ballast Substances From Compound Antigens

tion can be cut to 1-2 hours, instead of the 3-4 days required by hydrodialysis. Examination of the purified antigens revealed that they had an ashcontent 6-8 times less than with hydrodialysis, contained more reducing substances and had a higher serological and immunogenic activity. Some rise in toxicity, especially with Shigella sonnei antigen, was noted.

There are: 1 table and 6 Soviet references.

Moskovskiy institut vaktsin i syvorotok imeni Mechnikova (Institute of ASSOCIATION:

Vaccines and Sera imeni Mechnikov, Moscow)

June 4, 1958 SUBMITTED:

Card 2/2

GOLUBEVA, I.V.; PEKHLETSKAYA, V.Ya.; GUSEVA, Yu.I.; KOSSOVA, A.K.; KAS'YANOVA, L.K.

Production of dry standard antigens for the preparation of diagnostic coli-sera. Zhur. mikrobiol. epid. i immun. 31 no.7:127-130 Jl '60. (MIRA 13:9)

1. Iz Moskovskogo instituta vaktsin i syvorotok im. Mechnikova. (ESCHERICHIA COLI)

SHTUTMAN, M.N.; AVDEYENKO, V.P.; NEUYMIN, Yu.A.; KAS'YANOVA, L.V.; IGNATOVA, M.V.; PEDENKO, V.A.; BUVALITS, A.I.

Precision and reliability of a DFS-10 quantometer at a metallurgical plant. Zav. lab. 31 no.2:247-249 '65. (MIRA 18:7)

1. Magnitogorskiy metallurgicheskiy kombinat.

VOSTOKOVA, Ye.A., VYSHIVKIH, D.D., KASITANOVA, M.S., HESVETAYLOVA, H.G., SHVYRYAYEVA, A.M.

Geobotanical evidence of bituminosity. Trudy VAGT no.1:99-117
155. (MLRA 9:11)
(Phytogeography) (Petroleum) (Prospecting)

KAS'YANOVA, M.S.

Aerial visual geobotanical observations in deserts and semideserts. Trudy VAGT no.1:147-151 '55. (MLRA 9:11) (Phytogeography)

SOV/137-58-7-14606

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 7, p 95 (USSR)

AUTHORS: Kas'yanova, N.A., Pervushin, S.A.

TITLE: Sources for Further Rise in Labor Productivity in the Electrolytic Zinc Industry (O rezervakh rosta proizvoditeľnosti truda

v tsinkovom elektrolitnom proizvodstve)

PERIODICAL: Sb. nauchn. tr. Mosk. in-t tsvetn. met. i zolota, 1957, Nr

27, pp 239-247

AESTRACT: Conversion to FluoSolids roast of Zn concentrates results in

a decline in sulfide S in the matte to 0.3-0.4%, while the acid-soluble Zn contents rose by 1.5-2% of the total content as compared to roasting in multiple-hearth furnaces. Moreover the matte did not contain any lumps, and the Zn contents of the leaching-products classification sands dropped from 26.7 to 17.5%, making it possible to deliver them to the Waelz process along with the Zn cake instead of returning them for roasting. This leads to a reduction of SiO2 in the cinders from 9.4 to 5.3%. With 65% of all the Zn concentrates subjected to Fluo-Solids roasting, labor productivity (LP) rose by 15.7%. It is noted that bringing the electrodes in Zn electrolysis baths to

Card 1/2

SOV/137-58-7-14606

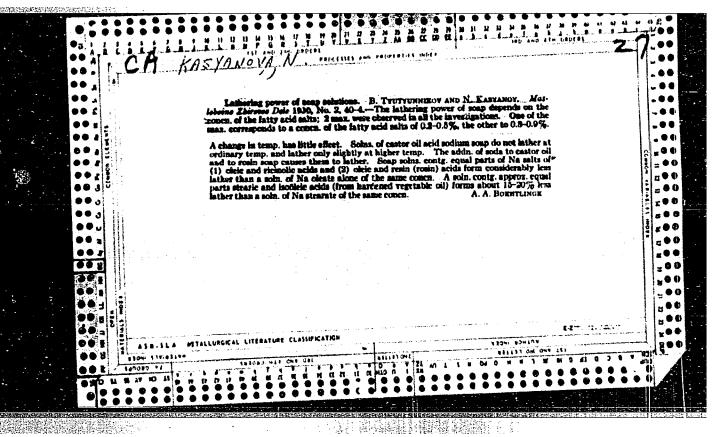
Sources for Further Rise in Labor Productivity (cont.)

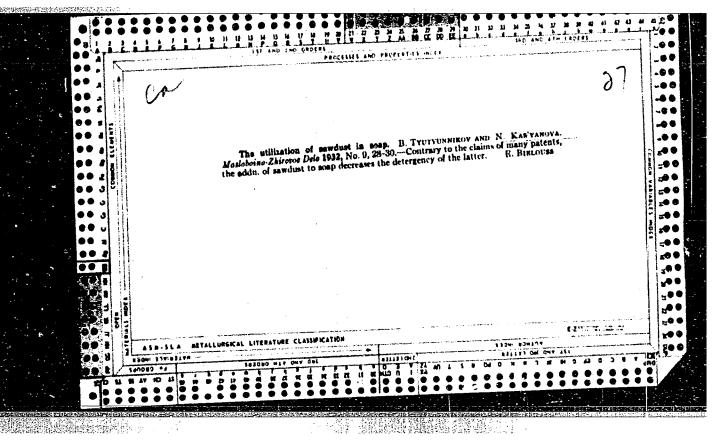
within 54 mm of each other and an increase in the cathode surfaces makes it possible to increase LP by 45%. Substitution of cooling coils in the baths by vacuum evaporation as the method of cooling the electrolyte makes it possible to raise the coefficient of bath utilization and to increase LP by 20-25% in addition to raising current efficiency by 2.5-3%. Increase in D to 650-700 amps/m², requiring rearrangement of the entire process, is capable of providing a further significant increase in LP.

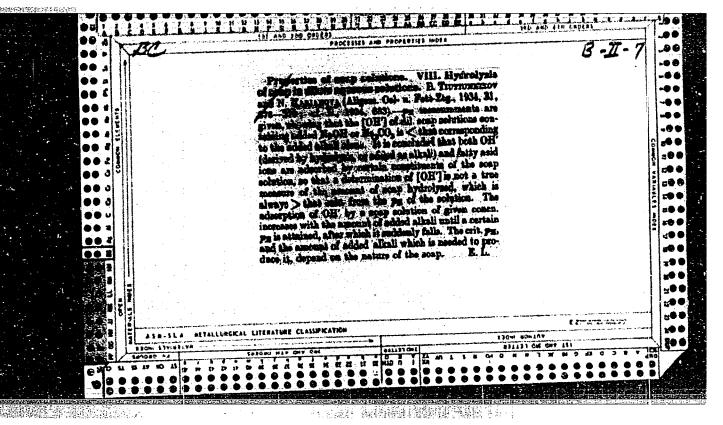
Ye.Z.

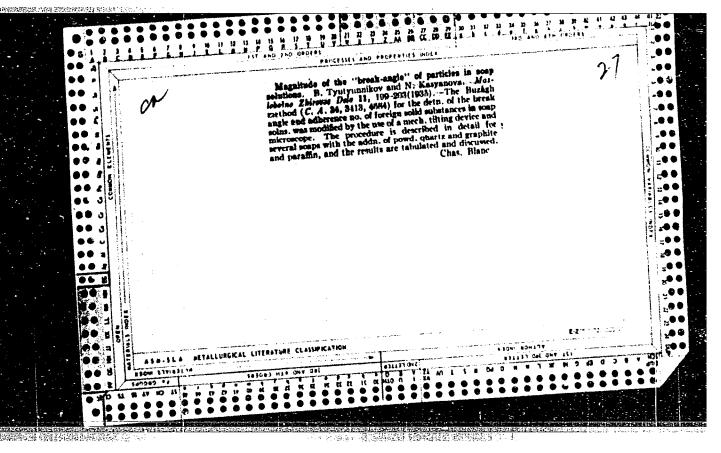
1. Zinc ores--Processing 2. Zinc--Production 3. Electrolysis--Applications

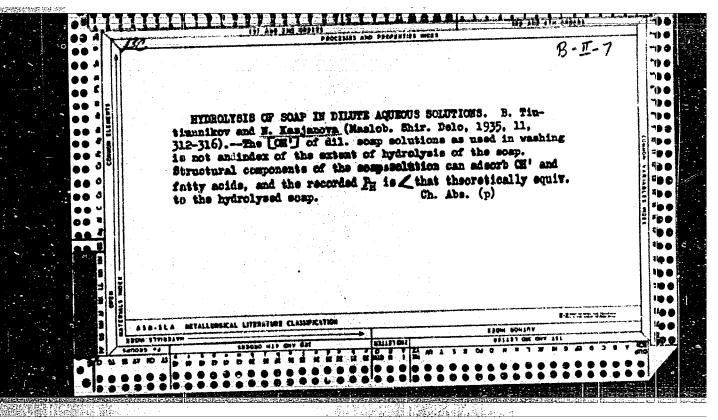
Card 2/2

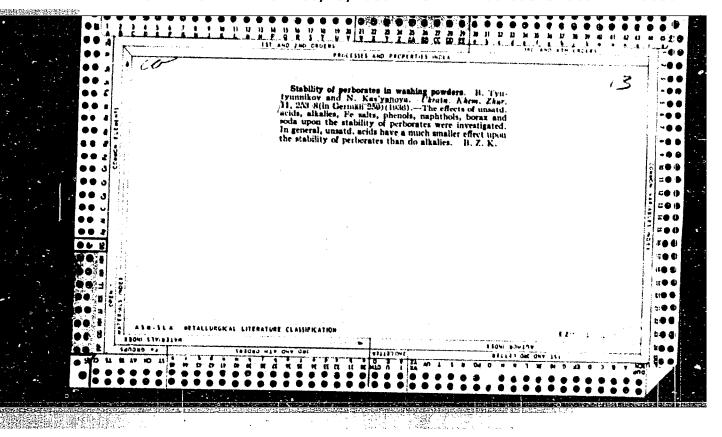


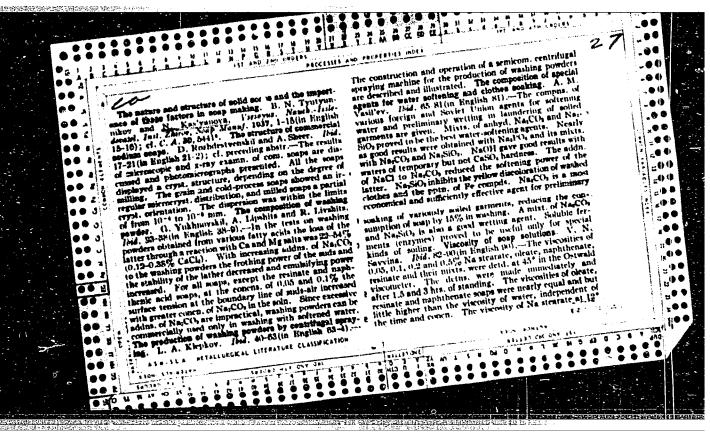


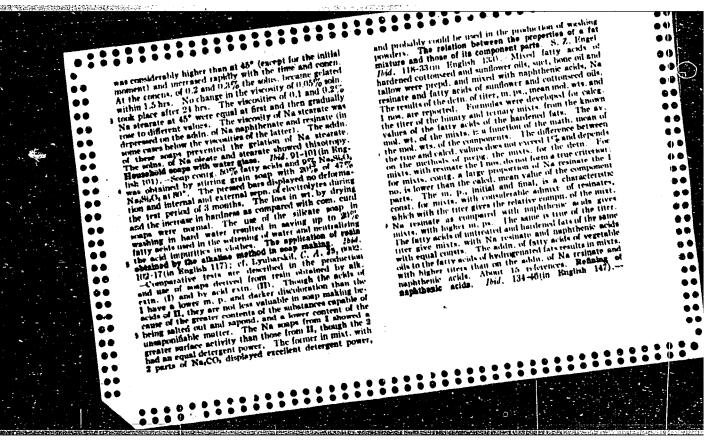


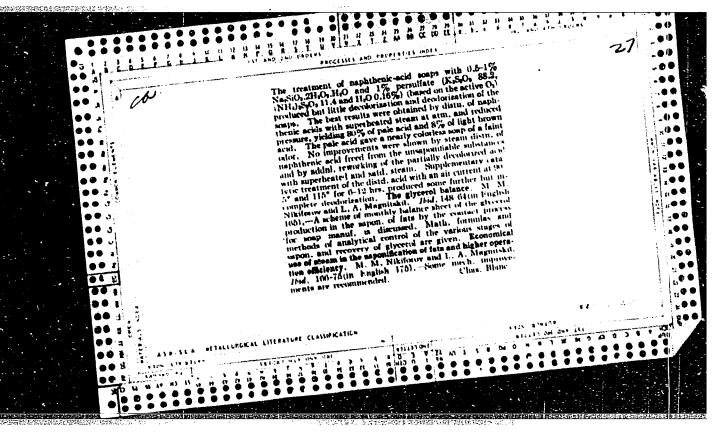


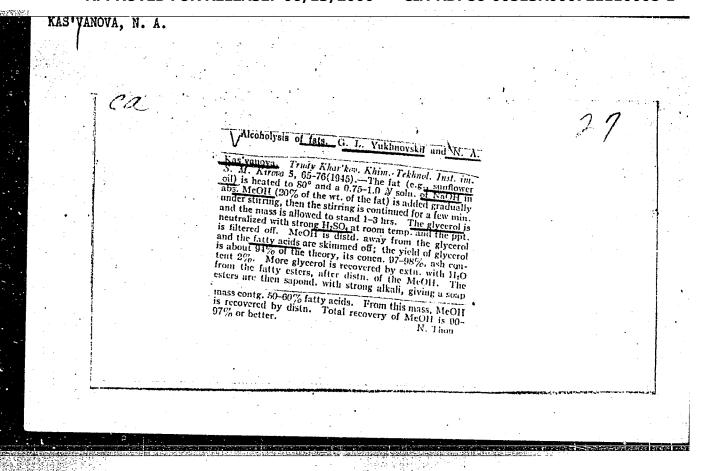












KAS'YaHOVA, N. A.

23315 O Prichinakh Temnoy Okraski i Nepriyatnogo Zapakha u Myl, Soderzhashchikh Asidol. Trudy Khak'k. Khim.-Tekhnol. In-Ta im. Kirova, Vyp. 7, 1949, c. 159-68.

SO: LETOPIS' NO. 31, 1949

S/080/61/034/004/012/012 A057/A129

AUTHORS:

Kas'yanova, N. A., Nesynov, Ye. P.

TITLE:

Preparation of toluene for liquid scintillators

PERIODICAL:

Zhurnal prikladnov khimii, v. 34, no. 4, 1961, 950 - 951

TEXT: A method for the purification of toluene in three steps is described:

1. The pro analysi toluene (FOCT (GOST)-5789-51) in an amount of 1 liter was shaken with 50 ml of concentrated H₂SO₄ during 15 - 20 minutes and left to stand for 12 hours. If the sulfuric acid layer was dark, the procedure was repeated. 2. Then the upper layer of toluene was transferred to a chromatographic column, where the impurities were adsorbed. The column was filled with 26 g (3 % of the weight of toluene) "aluminum oxide for chromatographic purposes" and covered with a layer of 60 g (7% of weight of toluene) ground (14 - 200 mesh) silica gel of the KCK (KSK) or ACK (ASK) grades (FOCT (GOST) 3958-47). After passing this column, the toluene (having a negative reaction with isatin) was rectified. 3. Rectification was carried out in a column with a cap for complete condenstation described by M. I. Rozengard (Ref. 1: "Tekhnika laboratornoy peregonki i rektifikatsii" ("Techniques of laboratory distillation and rectification"), Goskhimizdat).

Card 1/2

S/080/61/034/004/012/012 A057/A129

Preparation of toluene for liquid scintillators

Small changes were made: the column was heated by indirect steam using a steam jacket; the still of the column was heated in a glycercl bath, which was controlled by a laboratory Λ ATP-9 (LATR-9) autotransformer. The main fraction of toluene was taken at 110.5 - 110.7°C. The yield of purified toluene based on the amount used for mixing with H_2SO_{ll} was 56 %. Transparency of the product was at λ = 3,600 % was for a 0.5 m layer in comparison to distilled water 100 %. Toluene purified by the described method corresponded the requirements for solvents for liquid scintillators. The present investigations were necessary, since "pro analysi" toluene produced in the USSR contains some water, thio-compounds and unsaturated substance which extinguish the luminescence of dissolved luminophors and deteriorate the transparency. The present purification method is based on the easy sulfonation of the thio-compounds of the thiophene (in comparison to toluene) and the following separation of the reaction products on the adsorbents. There is 1 figure and 1 Soviet reference.

ASSOCIATION: Khar'kovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta khimicheskikh reaktivov (Khar'kov Branch of the All-Union Scientific Research Institute of Chemical Reagents)

SUBMITTED:

April 21, 1958, (initially), November 12, 1960 (after revision)

Card 2/2

KAS'YANOVA, N.A.; KLUHNICHKIN, K.F.; SHKOL'NIKOV, E.M. Refriciency of treatment with rare metal alloys. Lit.proizv. no.11:37 N '62. (MIR (MIRA 15:12)

(Cast iron-Metallurgy) (Rare earth metals)

TADZHIYEV, K.T.; KAS'YANOVA, N.V.; USMANOV, N.U.

Some problems of the treatment of thyrotoxicosis. Zdrav.Tadzh. 10.no.1:32-36 '63. (MIRA 16:7)

l. Iz kafedry obshchey khirurgii (zav.-prof. K.T. Tadzhiyev) Tadzhikskogo meditsinskogo instituta imeni Abuali ibni Sino. (THYROID GLAND--DISKASES)

FRENKEL', Ye.B., kand tekhn.nauk; KHMEL'NITSKAYA, Ye.G., mladshiy nauchnyy sotrudnik; KAS'YANOVA, R.V., teknolog

Using a steam-air mixture for moisturizing pelts and semifinished sections in furrier work. Nauch.-issl.trudy NIIMP no.10:65-75 '60. (MIRA 14:4)

(Fur--Dressing and dyeing)

FRENKEL', Ye.B., kend. tekhn. nauk; KHREL'DITSKAYA, Ye.G., mladehiy nauchnyy sotrudnik; KAS'YANOVA, R.V.

Use of infrared rays for rabbit pelt drying during the dyeing of raw skins. Nauch. issl. trudy NIMP no.12:39-45 163.

Radiation-convection method for drying sheep jelts with the use of gas radiators. Ibid.:45-55 (MIRA 17:11)

FRENKEL', Ye.B.; SHAKHET, G.P.; KAZAS, V.M.; KHMEL'NITSKAYA, Ye.G.; ERUSSER, V.M.; KAS!YANOVA, R.V.

New method of moistening fur skins and cuts in furrier work.

Kozh.-pbuv.prom. 5 no.1:28-31 Ja '63. (MIRA 16:2)

(Fur-Dressing and dyeing)

The second secon

MERZON, A.K., dotsent; KAS'YANOVA, T.N.

Materials on comparative evaluation of modern diuretics. Sov. med. 28 no.5:102-110 My '65. (MIRA 18:5)

1. Kafedra propedevticheskoy terapii (zav. - prof. M.I.Frankfurt) lechebnogo fakuliteta Donetskogo meditsinskgo instituta.

MERZON, A.K.; NESTEROVA, L.P.; KAS'YANOVA, T.N.

Use of corticosteroids in cardiac insufficiency. Sov. med. 27 no.12:22-30 D*63 (MIRA 17:4)

1. Iz kafedry propedevticheskoy terapii (zav. - prof. M.I. Frankfurt) lechebnogo fakuliteta Donetskogo meditsinskogo instituta.

KAS'YANOVA, T.N.

Combined use of mercusal and euphyllin. Sov. med. 27 no.12: 89-92 D'63 (MIRA 17:4)

1. Iz kafedry propedevticheskoy terapii (zav. - prof. M.I. Frankfurt) lechebnogo fakuliteta Donetskogo meditsinskogo instituta.

PAVIENKO, I.I., inzh.; ROVENSKAYA, T.V., inzh.; KAS!YANOVA, T.S., inzh.

Macrophotography of graphite to reveal its eutectic grain. Lit. proizv. no.7:44 Jl '65. (MIRA 18:8)

SUKOVATYKH, L.S., KAS!YANOVA, T.S.

Combined use of thic.-TEPA and Au in treatment of cancer ascites and plaurisy. Vop.onk. 11 no.11:26-28 165.

l. Iz Nauchno-issledovatel'skogo instituta onkologii i meditsinskoy radiologii Ministeratva zdravookhraneniya Delorusskoy SSR (direktor - prof.N.N.Aleksandrov).

V I KASIYANOVA and I N ORLOV

"Preparation of Experimental Cathode-Ray Tubes with Monochromatic Screens 10 Cm in Diameter" from Annotations of Works Completed in 1955 at the State Union Sci. Res. Just; Min. of Radio Engineering Ind.

So: B-3,080,964

KASYANOVA, VT. KASTANOVA, VII.

SUBJECT

USSR / PHYSICS

CARD 1 / 2

PA - 1835

AUTHOR

BLAŽNOVA, E.I., MOKRINCEVA, A.I., KASJANOVA, V.I.

TITLE

CONTRACTOR OF THE

Luminescent Substances for Colored Television on the basis of

ZnS · ZnSe.

PERIODICAL

Zurn.techn.fis, 26, fasc.12, 2784-2785 (1956)

Issued: 1 / 1957

In the works by GRIGORJEV and in one by the authoresses the possibility was pointed out of using the luminescent substances ZnS . ZnSe for a number of industrial purposes. The method of producing these substances is simple and reliable. In the course of this work the authoresses describe their investigation of these substances as their applicability for colored television. The composition of the green and red layers of the luminophores is given as well as the reaction when forming the luminophores: ZnS + SeO2 -> ZnS . ZnSe + SO2. The ratio of the components of the re-d and green luminophore layers was empirically selected. Hardening of the luminophores was carried out in the air for one hour at 900° C. The temperature and the flux chosen warranted a production of powders with a very close granulometric composition. Samples of blue, red, and green luminescent luminophores were obtained. The experiment showed that the luminescent color of the luminophores is of sufficient stability in the case of a sufficiently great modification of the state of excitation (anode voltage of from 15 to 20 kV and current density of the beam 0.1 \(\mu \text{A.cm}^{-2} - 4 \) \(\mu \text{A.cm}^{-2} \). An important property of the luminophores for colored television is the stabil-

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110008-1

Zurn.techn.fis, 26, fasc.12, 2784-2785 (1956) CARD 2 / 2 PA - 1835 ity of their calorimetric parameters during the thermal process of their treatment, which is in connection with the production technique of the cinescope. A table shows the calorimetric parameters before and after heat treatment. Two diagrams show the spectral composition of the radiation of the colored luminophores and the dependence of brightness on the density of the current. The brightness of the luminescent screens of these luminophores changed after 400 hours of operation and at an anode voltage of 15 kV and a current density of the beam of 1 MA.cm-2 by less than 5%.

INSTITUTION:

KAS' YANOYA, V. I.

Using flow-line methods in manufacturing laboratory glassware. Stek. i ker. 17 no.8:38 Ag '60. (MIRA 13:8) (Conveying machinery) (Gus-Khrustalnyy-Glass manufacture)

MERZON, A.K., dotsent; KAS YANOVA, T.N.

ti,

Data on the characteristics of the diuretic action of fonurit.

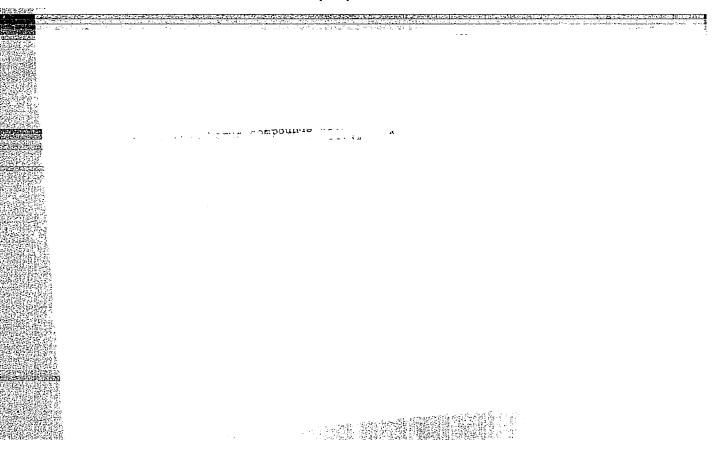
Terap.arkh. no.8:122 *62. (MIRA 15:12)

1. Iz kafedry propedevticheskoy terapii lechebnogo fakuliteta (zav. - dotsent M.I. Frankfurt) Donetskogo meditsinskogo instituta. (THIADIAZOLE SULFONAMIDE)

IMAYEV, M.G.; SHAKIROVA, A.M.; SHIRMANOVA, Ye.P.; KASIYANOVA, Ye.K.

Organophosphorus compounds with an active methylene up. Fart 1: Synthesis of certain A-ketophosphinates. Zhur. ob. khim. 34 no.12:3950-3952 D 164 AIRA 18:1)

1. Bushkirskiy gosudarstvennyy universitet.





IVANOVA, R.M.; ASHRAFI, R.I.; BURIKOVA, Ye.M.; VITTENBERG, Z.V.;
ZARETSKAYA, A.R.; NAZAR'YEVA, N.S.; RAPIYENKO, D.V.; BURAKOVA,
G.Ye.; KUTSENKO, I.T.; KAS'YANOVA, Ye.M.; PERSHIN, S.P., inzh.

Observations on the stability of track. Put! i put.khoz. (MIRA 13:2)

1. Studenty Moskovskogo instituta inzhenerov zheleznodorozhnogo transporta (for all except Pershin). (Railroads--Track)

KAS YANSKIY, M.S.

"Equipment of the liqueur and vodka plants" by A.M.Dinaburg.

I.M.Roiter. Reviewed by M.S.Kas ianskii. Spirt.prom. 26 no.1: (Liquor industry—Equipment and supplies)
(Dinaburg, A.M.) (Roiter, I.M.) 38-39 '60.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1"

KASIYANYUK, 3.
Perevoshchikov, Dmitriy Matveyevich, 1790-1880

Dmitriy Matveyevich Perevoshchikov. Mat. v shkole No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified

KAS'YANYUK, S.A. (Kiyev)

Academician E.S.Fedorov's interpretation of Euclidean threedimensional space. Mat.v shkole no.1:1-8 Ja-F '56.(MLRA 9:4) (Geometry) (Crystallography, Mathematical)

MHS YHWYUK, SILT.

AUTHOR:

KAS'YANYUK S.A. (Kiyev)

39-3-3/6

TITLE:

On Functions of the Classes A and Hs in the Circular Ring (O funktsiyakh klassov A i Hs v krugovom kol'tse)

PERIODICAL: Mat.Sbornik,

1957, Vol. 42, Nr.3, pp.301-326 (USSR)

ABSTRACT: Let K

Let $K_g(r;R)$ denote the circular ring 0 < r < |s| < R. A function f(s) regular in $K_g(r;R)$ is denoted to belong to the class A if

$$\frac{1}{2\pi} \int_{-\pi}^{\pi} \ln^{+} \left| f(g e^{i\theta}) \right| d\theta < K_{A}(f) < \omega, \quad r < g < R.$$

Let a function $\varphi(z)$ regular in $K_z(r;R)$ belong to the class H_{ξ} . $\delta > 0$, if

$$\frac{1}{2\pi} \int_{-\pi}^{\pi} |\varphi(ge^{i\theta})|^{\delta} d\theta < \kappa_{H}(\varphi) \qquad r < g < R.$$

Card 1/2

The author uses Blaschke-functions for multiply connected domains and a generalization of the Poisson-Jensen's formula

Card 2/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000721110008-1"

Kas'yanyuk, S.A. (Kiev) AUTHOR:

SOV/140 -58-1-10/21

TITLE:

On a Generalization of the Locally & - Star-Shaped and Locally & -Convex Analytic Functions of Yu.D. Maksimov (Ob odnom obobshchenii lokal'no & -zvezdnykh i lokal'no & -vypuklykh analiticheskikh funktsiy Yu.D.Maksimova)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Nr 1, pp 103-114 (USSR)

ABSTRACT:

Two rather large classes of functions are defined by very numerous data. Certain integral representations are given as necessary and sufficient conditions that a function belongs to these classes. A distortion theorem and a torsion theorem, i.e. estimations for |f'(z)| and arg f'(z) are proved. Furthermore several other rigorous estimations are given. In the special case one obtains the classes considered by Paatero [Ref 1,4,5] and Maksimov [Ref 7,8,9], as well as results of Reade [Ref 12] and Renyi [Ref 14] . There are 14 references, 7 of which are Soviet, 3 Finnish, 2 Japanese, 1 American, and 1 Hungarian.

ASSOCIATION: Kiyevskiy ordena Lenina politekhnicheskiy institut (Kiyev Polytechnic Institute Distinguished With the Lenin Order)

Card 1/2

AUTHOR:

Kas' yanyuk. S.A.

SOV/140-58-6-11/27

TITLE:

On Functions Convex in the Annulus in the Direction of the Imaginary Axis (O funktsiyakh vypuklykh po napravleniyu mnimoy osi v krugovom

kol'tse)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 6. pp 105-110 (USSR)

ABSTRACT:

In the annulus $r \le |z| \le R$ the author considers functions star-shaped in the direction of the real axis and obtains a generalization of the structural formula of Robertson [Ref 2]. Then the author considers functions convex in the annulus in the direction of the imaginary axis, especially such functions with real coefficients. By use of the results due to Li Yen Pir [Ref 5] the author extends some further results of Robertson [Ref 2] to the case of the annulus. There are 6 references, 2 of which are Soviet, 2 American, and 2 Japanese.

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'ye Machine-Constructing Institute)

SUBMITTED: February 17, 1958

Card 1/1

KAS'YANYUK, S.A., Cand Phys-Math Sci-p(diss) "Special classes of analytical functions in a circle and a circular ring." Kiev, 1958.

11 pp (Min of Higher Education URSSR. Kiev Order of Lenin Polytech Inst. Chair of Higher Mathematics), 150 copies (KL, 30-50, 122)

-7-

16(j)

SOV/21-59-1-4/26

AUTHOR:

Kas'yanyuk, S.A.

TITLE:

On the Method of Structural Formulas and the Principle

of Conformity of Boundaries in Conformal Mapping

(O metode strukturnykh formul i printsipe sootvetstviya

granits pri konformnom otobrazhenii)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, Nr 1, 1959,

pp 14-17 (USSR)

ABSTRACT:

This article contains an analytical formulation of the principle of conformity of boundaries in conformal mapping and establishes the necessary and sufficient conditions imposed on the harmonious function a (u;v), which secure the construction of structural formulas. Applying the theorem of Riss-Gerglots, the article

Applying the theorem of Riss-Gerglots, the article examines the creation of functions of limited conversion, a formula for convex functions and transformations of star and spiral functions. The designations employed are standard mathematical. There are 5 references, 4

Card 1/2

of which are Soviet and 1 English.

SOV/21-59-1-4/26

On the Method of Structural Formulas and the Principle of Conformity of Boundaries in Conformal Mapping

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'-ye Institute of Machine Construction)

September 30, 1958, by B.V. Gnedenko, Member of AS PRESENTED:

Card 2/2

16(1)

507/21-59-2-1/26

AUTHORS:

Dunduchenko, L.Ye., and Kas'yanyuk, S.A. (Dunduchenko, L.O and Kas'yanyuk, S.A.)
On Analytical Functions Limited in n-Connected Cir-

TITLE

cular Regions (Ob analiticheskikh funktsiyakh, ogra-

nichennykh v n-svyaznykh krugovykh oblastyakh)

PERIODICAL:

Dopovići Akademii nauk Ukrains'koi RSR, 1959, Nr 2,

pp 111- 15 (USSR)

ABSTRACT:

Proceeding from the results of V.A. Zmorovich \sqrt{R} ef 1/2the authors establish a structural formula for a class of functions limited in their modulus in the vicinity of the boundary Kn and analytic functions (regular and meromorphic) in an n-connected circular region Kn. A series of exact values was obtained in classes of limited regular functions, also exact evaluations of expressions f' (z) and Re f (z) in the class C(Kn) of functions regular in Kn

Card 1/3

and possessing a positive real part. Inequality $|f(z)| \le M \prod_{z=1}^{n} |H(z; y)| \cdot \prod_{z=1}^{n} |H^{-1}(z; as)|$

SOV/21-59-2-1/26 On Analytical Functions Limited in n-Connected Circular Regions

analogous to the lemma of Schwarz was examined and made more exact by the authors, yet was not shown in final form, in view of its combersomeness. Terms used in the text are standard mathematical. Prearranged designations are: Kn is n-connected monophyllous region obtained from the whole area by the exclusion from it of n circles |z-Ck| < Rk, $k=1,2,\ldots$ n. G k is circle |z-Ck| = Rk, k is affix of that circle's point. H(z;a), $a \le Kn$ designate a regular and univalent in Kn function, that reflects Kn upon single circle cut across (n-1) are of concentric circles. Function f(z) is regular. f(z) is a regular function in Kn. F is real constant, f(z;a) is defined at 2 point. Function h has properties analogous to function H. Four theorems are examined and proved.

Card 2/3

SOV/21-59-2-1/26 On Analytical Functions Limited in n-Connected Circular Regions

There is 1 Soviet reference.

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'-ye Institute of Machine Building)

PRESENTED: By B.V. Gnedenko, Member of the AS Ukr BSR

SUBMITTED: October 15, 1958

Card 3/3

16(1) AUTHORS: SOV/21-59-3-1/27

Dunduchenko, L.Ye., and Kas'yanyuk, S.A.

TITLE:

On Analytical Functions of Limited Boundary Rotation in n-Connected Circular Regions (Ob analiticheskikh funktsiyakh s ogranichennym granichnym vrashcheniyem v n-svyazannykh krugovykh oblastyakh)

PERIODICAL:

Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 3,

pp 227-230 (USSR)

ABSTRACT:

Proceeding from the work by V.A. Zmorovich /Ref 1/, the authors introduce a class P(Kn) of functions with limited boundary rotation, which generalizes the corresponding class of functions of Paatero /Ref 3/ on n-connected circular regions Kn. The obtained exact expressions of values of arguments of functions f'(z) and |f'(z) generalize the before-obtained results when N=2 in the authors versions and when N=1 in Paatero's version. (The consideration of expressions with n=2 has been borrowed by the authors from the text of their lecture at the IV All-Union conference on the theory of functions

Card 1/3

On Analytical Functions of Limited Boundary Rotation in n-Connected Circular Regions

of a complex variable, that took place in Moscow in May 1958). An n-connected synonym of the polygonal formula of Schwarz-Christoffel, applicable in the conformal mapping theory, has been formulated:

wherein $j=1,2,\ldots,n;$ f(z), j() are functions; mj is number of disruption points of functions j(), j,s is a fixed point of circle $Rje^1-cj=Rj.$ Other designations are standard mathematical, changing their values according to the character of the aim. Three theorems are considered and proved. There are 3 references, 2 of which are Soviet and 1 Italian.

Card 2/3

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SOV/21-59-3-1/27

On Analytical Functions of Limited Boundary Rotation in n-Connected Circular Regions

ASSOCIATION: Zaporozhskiy mashinostroitel nyy institut (Zaporozhye Machine Construction Institute)

PRESENTED: October 27, 1958, by B.V. Gnedenko, Member of the

AS UkrSSR

Card 3/3

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1"

16(1)

SOV/21-59-5-3/25

AUTHORS:

Dunduchenko, L.Ye. and Kas'yanyuk, S.A.

TITLE:

On Two Classes of Functions Regular in n-Connected

Circular Regions

PERIODICAL:

Dopovidi Akademii nauk Ukrains koi RSR, 1959, Nr 5, pp 468-472 (USSR)

ABSTRACT:

This article constitutes a furthering of the authors' work /Ref. 1/ and the authors invite the reader to refer to that work prior to studying this one. Two very general classes $\Gamma_0(K_n)$ and $\Gamma_*(K_n)$ regular in n-connected circular regions of functions are under study, between which there exists a correlation of the Alexander type. Seven

theorems are presented. 1) Possibility of expressing the function f(z) of $\Gamma o(K_n)$ class by its structural

Card 1/2

formula (3). 2) Contingency of joining the function φ (2) to $\Gamma_{*(K_n)}$ class upon its fitness to be expressed by its

SOV/21-59-5-3/25

On Two Classes of Functions Regular in n-Connected Circular Regions

structural formula (4). 3) The correctness of evaluations (6), (7) and (8), if the function f(z) belongs to $f\circ (K_n)$ class. 4) and 5) The correctness of evaluations (9) and (10) if f(z) is f(x) o(K_n). 6) and 7) The correctness of evaluations (11), (12) and (13), if the function φ (z) belongs to \(\mathbb{K}_n \) class. Concretization of the parameters of the above named classes makes it possible to single out most classes of functions which are no connected analogues of the respective classes of functions, adequately studied in the circle and annulus. There are 7 references, 5 of which are Soviet, 1 US and 1 Japanese.

ASSOCIATION: Zaporozhskiy mashinostroitel'nyy institut (Zaporozh'ye

Machine Building Institute)

PRESENTED: By B.V. Gnedenko, Member of the AS UkiSSR

SUBMITTED: October 27, 1958

Card 2/2

SOY/21-59-7-2/25 16(1)

Dunduchenko, L. W. and Kas'yanyuk, S.A. AUTHOR:

On Blaszke's Function for n-Connected Circular Regions TITLE:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1959, Nr 7 PERIODICAL:

pp 699-701 (UkrSSR)

ABSTRACT: An n-connected analogue of Rlaszke's function is constructed for an n-connected circular region K, and a

well-known theorem

Lim 1 lu [1 (pe 10) do = + \infty

is generalized for region K_n : for every function f(z),

analytical in K_n , $f(z) \not\equiv 0$, the zeroes of which form a sequence with densification points on the border of K_n , a Blaszke function b(z) may be constructed, and and the function itself may be presented in the form $f(z) = b(z) \not p(z)$, where $\not p(z)$ is a single-value function regular in K_n , which is not reduced to zero at any point $z \in K_n$.

any point z & Kn. Card 1/2 There are 7 mathematic formulas

SOV/21-59-7-2/25

On Blaszke's Function for n-Connected Circular Regions

and 1 Soviet reference.

ASSOCIATION: Zaporiz'kyy mashynobudivnyy instytut (Institute of Machine-Building of Zaporozh'ye)

B.V. Gnedenko, Member AS UkrSSR PRESENTED:

January 22, 1959 SUBMITTED:

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1

16(1)

SOV/21-59-9-4/25

AUTHORS:

Dunduchenko, L.O. and Kas'yanyuk, S.A.

TITLE:

On Classes of Functions of Limited Form in N-Connected

Circular Regions

PERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi RSR, Nr 9, 1959, pp 945-948 (USSR)

ABSTRACT:

In this paper, the authors discuss the functions regular in Kn of a limited form of classes A and H_p (p>0) The following structural formula of class A has been applicable of the following structural formula of class A has been established generalizing V.I. Smirnov's well-known result for n-connected circular regions: $\begin{cases}
f(z) = e^{-\alpha + i\beta t} f(z) X & \text{exp} \left\{ \frac{1}{2\pi} \sum_{j=0}^{n} \int_{-i0}^{n} f_j(z; \xi_j) \ln p_j(\theta) d\theta \right\} X
\end{cases}$

 $x \exp \left\{ \frac{i}{2\pi} \sum_{j=0}^{n} S_{j}(z_{i} S_{j}) d\omega_{j}(\theta) \right\}_{i}$

Card 1/3

SOV/21-59-9-4/25

On Classes of Functions of Limited Form in -Connected Circular Regions

> whereby β stands for constant; η (2 ξj) - funct which reflects the m -connected circular region κ_n on the right half-plane with sections along segments parallel to the imaginary axis / Ref 4/; such inseparable function whose logarithms $\ell_{P,j}(\theta)$ are added to the segment $/02\pi/$; $\omega_{j}(\theta)$ function of a limited variation with a derivative which equals zero almost everywhere on the segment [0:x]; b(x) function of Blashke, constructed according to the zeros of the function f(x). There are 5 Soviet references.

Card 2/3

ASSOCIATION: Zaporiz'kyy mashynobudivnyy instytut (Zaporozh'ye

Machine Building Institute)

16(1) AUTHOR:

Kas'yanyuk, S.A. (Zaporozh'ye)

SOV/41-11-1-5/12

TITLE:

On Functions Bounded With Respect to the Absolute Value Within

a Circular Ring

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 1,

pp 52-65 (USSR)

ABSTRACT:

Let $K_z(q;1)$ be the ring q < |z| < 1.

Theorem: Let f(z) be regular in $K_z(q;1)$, there $|f(z)| \le 1$. Then

 $|f'(z)| \le \frac{1}{|z|} \cdot \frac{1}{1-|z|^2} \prod_{k=1}^{\infty} \left\{ \frac{(1-q^{2k})^2}{(1-q^{2k}|z|^2)(1-\frac{q^{2k}}{|z|^2})} \right\}$

Similar estimations are given for the absolute value of the derivative if the function is regular in $K_{\rm Z}(q;1)$ and its real

part is positive or bounded or if the function is ≤ 1 with respect to its absolute value and has no zeros in $K_Z(q;1)$. The author

discusses the possibility to introduce other conditions instead of the condition $|f(z)| \le 1$. Furthermore the author considers the functions f(z) unique in $K_z(q;1)$, regular, and everywhere

Card 1/2

On Functions Bounded With Respect to the Absolute SOV/41-11-1-5/12 Value Within a Circular Ring

different from zero, for which $\int \frac{f'(z)}{f(z)} dz = \int \frac{\ln f(z)}{z} dz = 0,$

q < g < 1, and there exists $L_f = \frac{1}{2\pi} \int \ln |f(z)| d \arg f(z)$; is the

boundary of $K_{z}(q,1)$. For these functions it holds:

 $|f(z)| \le e^{\frac{L_f}{c}} \frac{1}{(1-|z|^2)^{c/2}} \prod_{p=1}^{\infty} \frac{1}{\{(1-q^{2r}, |z|^2)(1-\frac{q^{2p}}{|z|^2})\}^{c/2}}, c>c.$

The estimation is strong. The author mentions Yu.Ye.Alenitzyn, G.M.Goluzin, A.F.Bermant, L.I.Kolbina, M.P.Remizova, aspirant of the Kiyev Polytechnical Institute, and V.A.Zmorovich. There are 13 references, 9 of which are Soviet, 2 American, and 2 German.

SUBMITTED: January 14, 1957

Card 2/2

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000721110008-1

16(1)

AUTHOR:

Kas'yanyuk, S.

sov/39-47-1-7/8

TITLE:

Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 47, Nr 1, pp 141-142 (USSR)

ABSTRACT:

The author corrects his elaborations "On the Functions of the Class A and Hg in the Annulus" (Matematicheskiy sbornik 1957, Vol 42, pp 300-326 (USSR)). In essential the correction consists in the modification of the construction of the Blaschke-function and leads to a new formulation of the theorem 4 of the paper

given above.

SUBMITTED: August 25, 1958

Card 1/1

DUNDUCHENKO, L.Ye. [Dunduchenko, L.O.]; KAS YANYUK, S.A.

On n-connected analogs of certain theorems in classes of regular functions of a limited type. Dop.AN URSE no.1: 13-16 '60. (MIRA 13:6)

1. Zaporozhskiy mashinostroitel'nyy institut. Predstavleno akademikom AN USSR B.V.Gnedenko [B.V.Hniedenko]. (Functions)

s/140/60/000/006/010/018 C111/C222

16.5400

On Some Subclasses of Convex and Star-Shaped Conformal Mappings TITLE: of an Annulus

Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1960, PERIODICAL: No. 6, pp. 126 - 139

Let the classes u_q^* and u_q^0 of functions regular in the annulus

(1.1)
$$f(z) = z \exp \left\{ -\frac{\omega}{k} \int_{-\pi}^{\pi} \ln \psi(z; \theta) d\mu(\theta) \right\} - \text{class } u_q^*$$

$$K_{z}(q^{2}; 1)$$
, $q^{2} < |z| < 1$, be defined by the structural formulas
$$(1.1) \quad f(z) = z \exp \left\{ -\frac{d}{2} \int_{0}^{\infty} \ln \psi(z; \theta) d\mu(\theta) \right\} - \text{class } u_{q}^{*}$$

$$(1.2) \quad F(z) = \int_{0}^{\infty} \exp \left\{ -\frac{d}{2} \int_{0}^{\infty} \ln \psi(\xi; \theta) d\mu(\theta) \right\} d\xi - \text{class } u_{q}^{0},$$

where

(1.3)
$$\psi(z; 0) = \frac{1 - ze^{-1\theta}}{1 - q^2 - e^{-1\theta}}$$

APPROVED FOR RELEASE: 06/13/2000

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 $0 < \alpha \le 1$, $\mu(0)$ belongs to the class M of real functions decreasing on $[-\widetilde{\kappa}, \widetilde{\kappa}]$ which are normed by the conditions

(1.4)
$$\mu(-\widetilde{\kappa} + 0) = \mu(-\widetilde{\kappa}); \int_{-\widetilde{\kappa}}^{\widetilde{\kappa}} d\mu(\theta) = 2\widetilde{\kappa};$$

In denotes the main branch of the function; the integral is a Stieltjes integral. Theorem 1: For mappings of the annulus $K_z(q^2;1)$ by functions of the class u_0^{\pm} there hold the strong estimations

$$(2.1) \quad \frac{\left(\frac{r+q^2}{r^{2d-1}(1+r)^{2d}} \le |f(z)| \le \frac{\left(r-q^2\right)^{2d}}{r^{2d-1}(1-r)^{2d}}, \qquad |z|=r, \\ q^2 < r < 1$$

for mappings of $K_{_{\bf Z}}(q^2~;~1)$ by functions of $u_{_{\bf Q}}^0$ there hold the strong estimations

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Annulus
$$(2.2) \int_{q}^{r} \frac{(x+q^2)^{2\alpha}}{x^{2\alpha}(1+x)^{2\alpha}} dx \leq |F(z)| \leq \int_{q}^{r} \frac{(x-q^2)^{2\alpha}}{x^{2\alpha}(1-x)^{2\alpha}} dx, |z| = r,$$

The equal sign holds only for the functions

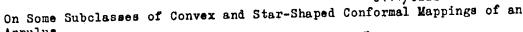
The equal sign holds only for the functions
$$(2.3) \quad f_0(z) = \frac{(ze^{-i\vartheta} - q^2)^{2\omega}}{z^{2\omega - 1}(1 - ze^{-i\vartheta})^{2\omega}}, \quad -ii \in \mathcal{S} \leq ii',$$

and
$$(2.4) \quad F_0(z) = \int_{q}^{z} \frac{(5e^{-i\frac{2}{3}}-q^2)^{2\alpha}}{5^{2\alpha}(1-5)e^{-i\frac{2}{3}}} d5, \quad -ii \leq 3 \leq ii$$

Theorem 2 (theorem on distortion): For mappings of $K_g(q^2; 1)$ by functions of the classes u_q^* and u_q^0 there hold the strong estimations Card 3/8

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Annulus
$$(2.10) \quad \frac{(r+q^2)^{2\alpha}}{r^{2\alpha}(1+r)^{2\alpha}} \le |F'(z)| \le \frac{(r-q^2)^{2\alpha}}{r^{2\alpha}(1-r)^{2\alpha}}, \quad |z|=r,$$

for
$$u_q^0$$
 and $\left\{ (1-2\alpha) + \alpha \left[\frac{1-r}{1+r} + \frac{r-q^2}{r+q^2} \right] \right\} \times$

$$\times \frac{\left(r+q^2\right)^{2\alpha}}{r^{2\alpha}\left(1+r\right)^{2\alpha}} \leqslant \left|r'(z)\right| \leqslant \frac{\left(r-q\right)^{2\alpha}}{r^{2\alpha}\left(1-r\right)^{2\alpha}} \times$$

(2.14)
$$\times \left\{ (1-2\alpha) + \alpha \left[\frac{1+r}{1-r} \frac{r+q^2}{r-q^2} \right] \right\}, \quad |z| = r,$$

for u_q^* . For $q \rightarrow 0$ the inequations (2.14) yield the distortion theorem Card 4/8

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for star functions of ∞ -th order

$$\frac{1-2\alpha}{(1+r)^{2\alpha}}+\frac{2\alpha}{(1+r)^{2\alpha+1}}\leq |f'(z)|\leq \frac{1-2\alpha}{(1-r)^{2\alpha}}+$$

(2.15)
$$+ \frac{2\alpha}{(1-r)^{2\alpha+1}}, |z| = r < 1$$

Theorem 3: For mappings of $K_z(q^2;1)$ by functions of the class u_q^0 , the curvature $K_r(\vartheta)$ of the image of the circle $z=re^{i\vartheta}$, $q^2 < r < 1$, $-\mathfrak{T} \leqslant \vartheta \leqslant \mathfrak{T}$, for every ϑ satisfies the inequations

(2.16)
$$k_{r}(0)_{\min} \leq k_{r}(\vartheta) \leq k_{r}(0)_{\max}$$

where

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$$k_{r}(0)_{mex} = \frac{(1-r^{2})^{-1}r^{2-\alpha-1}}{(r^{2}-q^{4})^{\alpha}} = \frac{sh \tau - sh \tau_{q}}{\tau + \tau_{q}} \times$$

(2.17)
$$\times \exp \left\{ -1 + \alpha \left(\widetilde{\upsilon} + \widetilde{\upsilon}_{q} \right) + \left(\widetilde{\upsilon} + \overline{\upsilon}_{q} \right) \right. \frac{1 - 2\alpha + \alpha \left(e^{-\widetilde{\upsilon}} + e^{\widetilde{\upsilon}_{q}} \right)}{\sinh \widetilde{\upsilon} - \sinh \widetilde{\upsilon}_{q}} \right\} ,$$

$$(2.18) \quad k_{r}(0)_{\min} = r^{2d-1} \frac{(1-r)^{2d}}{(r-q^{2})^{2d}} \times \left\{ 1 - 2d + d \left[\frac{1+r}{1-r} + \frac{r+q^{2}}{r-q^{2}} \right] \right\}$$

(2.19)
$$\tau = \ln \frac{1+r}{1-r}, \quad \tau'_q = \ln \frac{r-q^2}{r+q^2}$$

The equal sign in (2.16) holds only for Card 6/8